



ScSSU1

```
1  atggttgcca attgggtact tgctcttacg aggcagtttg accccttcat
51  gtttatgatg gtcatgggtg tcggcatttc atcgaatatt ctatatagct
101 tcccatatcc tgcaagggtg ctaagaatat gctcctacat catgtttgct
151 atcacttgcc ttattttcat tgctgtgcag gcactacaaa tattacattt
201 gattgtctat attaaggaga aaagcttcag agaatatatt aatgactttt
251 tcagaaatat gaagcacagt ttattttggg gtacttatcc catgggggta
301 gttacaatta taaattttctt aggagcactc tcgaaagcga acacgacgaa
351 gagccccact aattccagaa atttgatgat atttgtttac gtcttgtggt
401 ggtatgatct cgcagtctgt ctagtaatag cgtgggggtat ctggtttctc
451 atctggcatg actattactc tttggaaggg attgggaatc atccttcata
501 taatatcaaa atggcatccg aaaacatgaa aagtgtattg ctactggata
551 tcattccgct ggttgctgct gcttcaagtt gtggaacatt cacaatgtca
601 gaaatattct tccatgcgtt taatagaaat attcaactga taacgttggt
651 catatgtgcc ttaacgtggc tgcatgccat tatcttcgtc ttcatactga
701 ttgcgatata cttctggagt ctttatatta ataagatacc accaatgaca
751 cagggttttca ccttattcct gcttttgggc ccgatgggcc aaggaagtty
801 tggagtctta ttgcttacag ataataataa aaaatatgcg ggcaaattatt
851 acccaacaga taacattaca agagaacaag agatattgac tattgcagtt
901 ccatgggtgtt tcaaaattct aggcattggt tctgctatgg cattgctcgc
951 tatgggctat tttttcaccg tgattttctgt cgtttcaatc ctgtcgtact
1001 acaataaaaa agagattgaa aacgagacag gaaaagtga gagagtttat
1051 accttccaca aaggtttttg ggggatgact ttcccgatgg gtactatgtc
1101 tttaggaaac gaagagttat atgtgcagta taaccagtac gttcccttat
1151 atgcatttag agtcctagga accatatacg gcggtgtttg cgtttgttgg
1201 tcaattctat gccttttatg cacattgcat gagtattcta aaaagatgct
1251 gcatgctgcc cgtaaatctt cattattttc agagtcaggt acggaaaaga
1301 cgacagtttc tccgtataac agcattgaaa gcgtggaaga atcaaactcg
1351 gctctagatt ttacgcgttt agcataa (SEQ ID NO: 34)
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FIG. 10A

NonScSSU1

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1  atggtcgcta gttggatgct cactgccaca agggatttca accctttcat
51 gtttgtcatg gttattgggg tcggtatttc atcgaatatt ctgtacagct
101 tcccgtatcc ggcgaggtgg ctgaggatat gctcgtacat catgtttgcc
151 attacatggt tgattttcat ctctgtacag gcgctgcagc ttttgacat
201 ggtcatctat atcaaagaaa aaagctttag agattacttc aatgaatatt
251 tcagaagtct gaagtacaat ttattttggg gtacttatcc catgggatta
301 gtaacaatca taaatttttt gggggcgctg tcacaaaaat ttaccacgac
351 aagccctgcg aatgccaagc acttgatcat ttttgtttac gtcctgtggt
401 ggtatgacct cgcggtttgt ttagtaaccg cttgggggat ttcattcctc
451 atctggcaaa agtactactt cgtggacggg gttggaaatc actcttcata
501 cagttcacga atggcttccg accacatgaa aagcgtactg ttgctagata
551 tcattccgct ggtcgttgct gcttcgagcg gtgggacatt tacaatgtca
601 aaaatattcg gtaccacttt tgataggaat attcaattgc taacactggt
651 catctgtgcc ctggtttggc tacacgctct tataattgtc tttattctga
701 ttacaatata cttctggaat ctttacatca ataagatacc accaatgacg
751 caggatattta cgttgttctt ggtattgggg ccattggggc aaggaagttt
801 tggatatttg ttgcttactg acaatataag aaagtatgta gaaaaatact
851 acccaaggga aaacatcacc atggaacaag aaatactaac cattatgggt
901 ccgtggtggt tcaaggttct gggcatgaca tttgctttgg cattaatcgc
951 tatgggttac ttctttacgg taatttccct tatttcgatt ttatcatact
1001 acaatgaaag agttgttgac aatgaaacag gcaaagtga aaggatctac
1051 actttccata aaggtttctg ggggatgact ttcccgatgg gtaccatgtc
1101 tttgggaaac gaggagctgt atctgcaata caaccagtat gttccccttat
1151 atgcattcag agtcatagct accatatatg gtggtatttg tgtttgctgg
1201 tcaatcttat gcctctcgtg cacgttgatg gggtaccta aaacgattct
1251 ccatgctgcc cgtaaacctt cgtttttatc agaggaaggg acggagaaga
1301 ctgtcaattc tcctttcaac agcatcgaaa gtgtggagga atcaaactcg
1351 gctatcgata gtacatattt aacataa (SEQ ID NO: 1)
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FIG. 10B

ScMET14

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1  atggctacta atattacttg gcatccaaat cttactttacg acgaacgcaa
51  ggcattgaga aaacaggacg gttgtactat ttggttaaca ggtctaagtg
101 cgtcaggtaa aagtacaatc gcctgtgcg ctagaacagtt actgctccaa
151 aaaaacttgt ctgcatatag attggatggg gacaacattc gttttggatt
201 gaacaaggat ttgggtttct cagaaaagga cagaaatgaa aacattcgta
251 gaattagcga agtttctaag ctatttgctg attcatgtgc tatttcaatc
301 acctcattta tctctccata cagagttgac agagatagag ctcgtgaact
351 acataaggag gctggtttga agttcattga aatattttgt gatgttccat
401 tagaagtcgc tgagcaaagg gaccctaagg gtttatacaa gaaagctagg
451 gaggggtgta tcaaggagtt tacagggtatt tctgccccat atgaagcgcc
501 aaaagctcca gagctacatt tgagaaccga ccagaagacg gttgaagaat
551 gtgctaccat tatttatgag tacttaatca gtgaaaaaat catccgtaag
601 catttgtaa (SEQ ID NO: 35)

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NonScMET14

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1  atggctacta atatcacttg gcatccaaat cttacctacg acgaacgtaa
51  ggaattaaga aagcaagacg gctgtaccgt ttggttgacc ggtctaagtg
101 cgtcaggaaa aagtacaata gcttgtgcac tggaacaatt actgcttcaa
151 aaaaacttat ctgcttatag gttagatggg gataacattc gttttggttt
201 gaataaggat ttgggtttct cagaaaagga cagaaatgaa aacattcgta
251 gaattagtga agtatccaag ctattcgctg attcgtgtgc tgtatccatc
301 acttcattta tttccccata cagagtcgat agagacagag cccgtgattt
351 acataaggaa gcaggcttga agttcattga aattttttgt gatgttccat
401 tagaagtcgc tgagcaaaga gaccctaagg gtttgtataa gaaagccaga
451 gaagggtgta ttaaagagtt cactgggtatt tcagctcctt acgaagctcc
501 aaaggcccca gagttgcatt taagaactga ccaaaagact gttgaagaat
551 gtgctgctat catttatgag tacctgggtca atgagaagat tatccggaag
601 catctataa (SEQ ID NO: 2)

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FIG. 11

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Attorney Docket: 47635.0002/00US

Sheet 3 of 3